# **BookletChart**<sup>TM</sup>

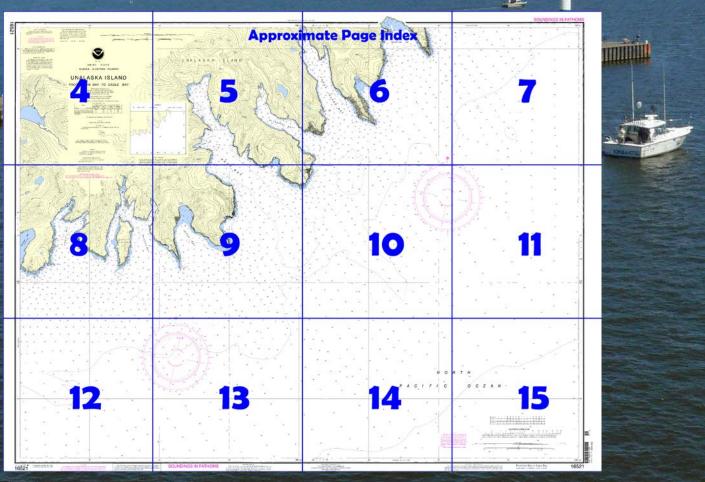


# Unalaska Island – Protection Bay to Eagle Bay NOAA Chart 16521

A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



# Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

# What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

# What is a BookletChart<sup>™</sup>?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

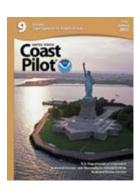
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <a href="http://www.NauticalCharts.NOAA.gov">http://www.NauticalCharts.NOAA.gov</a>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

# **Notice to Mariners Correction Status**

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165</a> <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165</a> <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165</a> <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165</a> <a href="https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165">https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165</a> <a href="https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165">https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165</a> <a href="https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165">https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=165</a> <a href="https://www.nauticalcharts.noaa.gov/nsd/searchbychar



# (Selected Excerpts from Coast Pilot)

From Kayak Cape W the shoreline trends to the SW and is deeply indented by several large bays, affording various degrees of protection. Only two of these, Usof Bay and Blueberry Bay, are considered to give adequate protection from all kinds of weather. Raven Bay is landlocked at the head and gives protection for small craft.

Protection Bay, just W of Kayak Cape, extends about 2 miles inland. There is a slight hook to the W at the head of the bay,

giving some protection for small craft from the S. Rocks extend 500 yards SE off the point of the hook. This bay has the least shelter of any in the vicinity, but its depth is more convenient for anchoring.

Cape Yanaliuk, about 4 miles SW of Kayak Cape, is easily identified by the mushroom-shaped rock just off the point. Altogether there are two small rock islets just off this point. The cape is narrow and precipitous except for a short distance on the SW side, which is a grass-covered slope, topped and flanked at each end by rock cliffs. The cape has a markedly jagged appearance. A small bight on the E side of the cape extends 1 mile inland but affords no protection in bad weather.

Three Island Bay, W of Cape Yanaliuk, extends inland for about 5 miles in a NNW direction; it affords fair protection for small craft in any weather in 8 to 15 fathoms at the head of the bay, behind three small islands which give the bay its name. Deep water carries through to the head of the bay between the islands. Care must be exercised not to

weather a rather heavy swell from outside makes it uncomfortable. **Foam Cove**, 1 mile above the W entrance point, provides fair temporary anchorage near the mouth of a stream.

anchor too close to the rocks N of the E island, nor to the shoal water at

the N end of the bay. Swinging room is restricted for vessels exceeding

100 feet in length, and the area affords only fair anchorage and

protection for small craft. It is subject to violent williwaws, and in S

Blueberry Bay, the next bay W of Three Island Bay, extends inland in a NW direction for about 3 miles. A fairly sharp turn to the N for about 1 mile makes the head of the bay landlocked and affords good shelter. The upper half of Blueberry Bay has a rugged shoreline characterized by narrow gravel and boulder beaches, or rocky shoreline with smooth rock slopes. Anchorage may be had in 15 to 20 fathoms in the middle of Blueberry Bay about 0.5 mile below the head in good holding bottom. The swinging room is entirely adequate for small craft and should suffice for ships of moderate size. Being entirely landlocked, there is almost entire freedom from swell. Winds are generally more moderate than in nearby localities and, as far as is known, never blow across the bay. Whalebone Cape is characterized by a bare, rocky, 2,000-foot peak, that appears as a series of broken rust-colored cliffs from offshore. At the base of the mountain is a rockslide about 300 feet high. The foot of the slide extends to the high water line. The shore around the point of the cape is very rugged and broken, and dangerous for boat landings because of rock islets, rocks awash, and covered rocks close inshore. Usof Bay, just W of Whalebone Cape, extends inland about 8 miles in a NNW direction and affords good anchorage at the head in 20 fathoms, sand bottom. The width of the bay narrows to 0.5 mile about 5 miles from the entrance and a slight turn to the N for about 1 mile makes the head of the bay landlocked. The general depth of the bay is over 60 fathoms. A small hanging glacier shows at the head of the bay over the W side of the narrows as seen from the entrance.

Good anchorage for small craft is found in **Johnson Cove**, at the mouth of a canyon on the W side about 5 miles in from the entrance, in 7 to 10 fathoms, mud bottom. The S arm of Johnson Cove should be avoided as it is shallow and filled with rocks. To the N of the canyon is a conspicuous cascade.

**Cape Prominence**, the W entrance point of Usof Bay, is marked by a tall cylindrical pinnacle connected at its base with the main point; it shows conspicuously from SSW. A flat ledge makes off 200 to 300 yards, and may be mistaken for the ledges off Reef Point.

Another cylindrical rock is about 700 yards N on the E side of the cape. It is not so noticeable, but is an aid in identifying Cape Prominence. Breakers extend for about 500 yards off the cape.

# U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Juneau Commander

17th CG District (9 Juneau, Alaska

(907) 463-2000

## HEIGHTS

Heights in feet above Mean High Water

### CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

## HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 3.094" southward and 6.747" westward to agree with this chart.

For Symbols and Abbreviations see Chart No. 1

# NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Unalaska, AK

WXK-89

162.55 MHz

### WARNING

The prudent mariner will not rely solely or

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 17th Coast Guard District in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage

Refer to charted regulation section numbers

## RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

# AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

Mercator Projection Scale 1;40,000 at Lat 53°27' North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FATHOMS AT MEAN LOWER LOW WATER

# POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone comnunication is impossible (33 CFR 153).

The contour lines are hill shapes, sketched to afford the navigator a generalized indication of the character of the land forms. They should not be relied upon as lines of equal elevation

# AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey

# SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

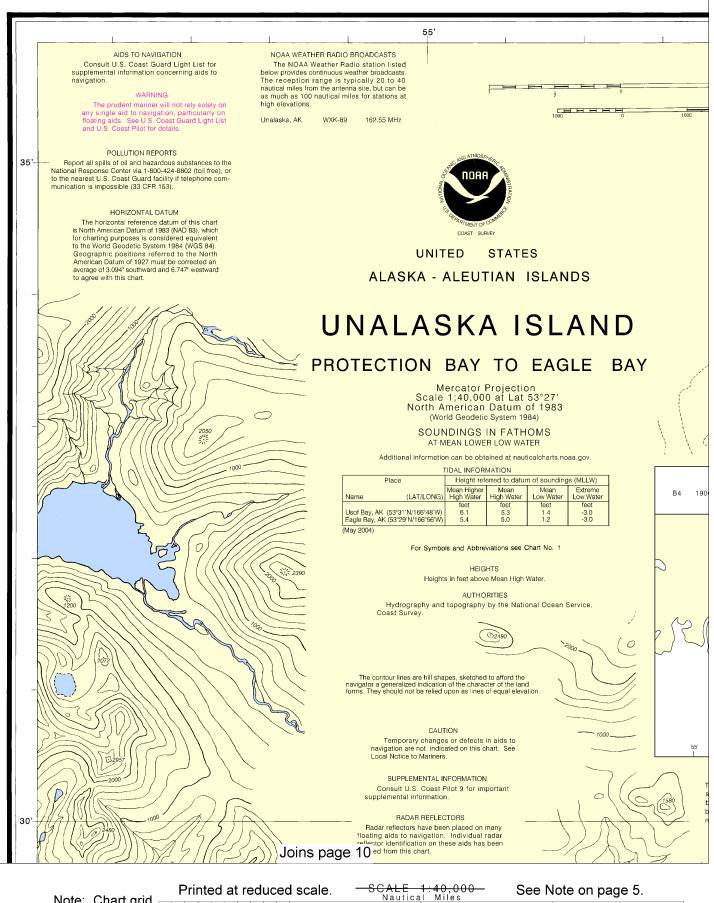
UPDATING SERVICE
FOR THIS CHART, a listing of NOTICE TO MARINERS (NM) corrections subsequent to the NM corrected through date shown in the lower left hand corner, is available from the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

# **Table of Selected Chart Notes**

International Regulations for Preventing Collisions at Sea, 1972. The entire area of this chart falls seaward of the COLREGS Demarcation Line

TIDAL INFORMATION					
Place		Height referred to datum of soundings (MLLW)			
Name	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
Usof Bay, AK (5 Eagle Bay, AK (5	53°31'N/166°48'W) 53°29'N/166°56'W)	feet 6.1 5.4	feet 5.3 5.0	feet 1.4 1.2	feet -3.0 -3.0
(May 2004)				•	



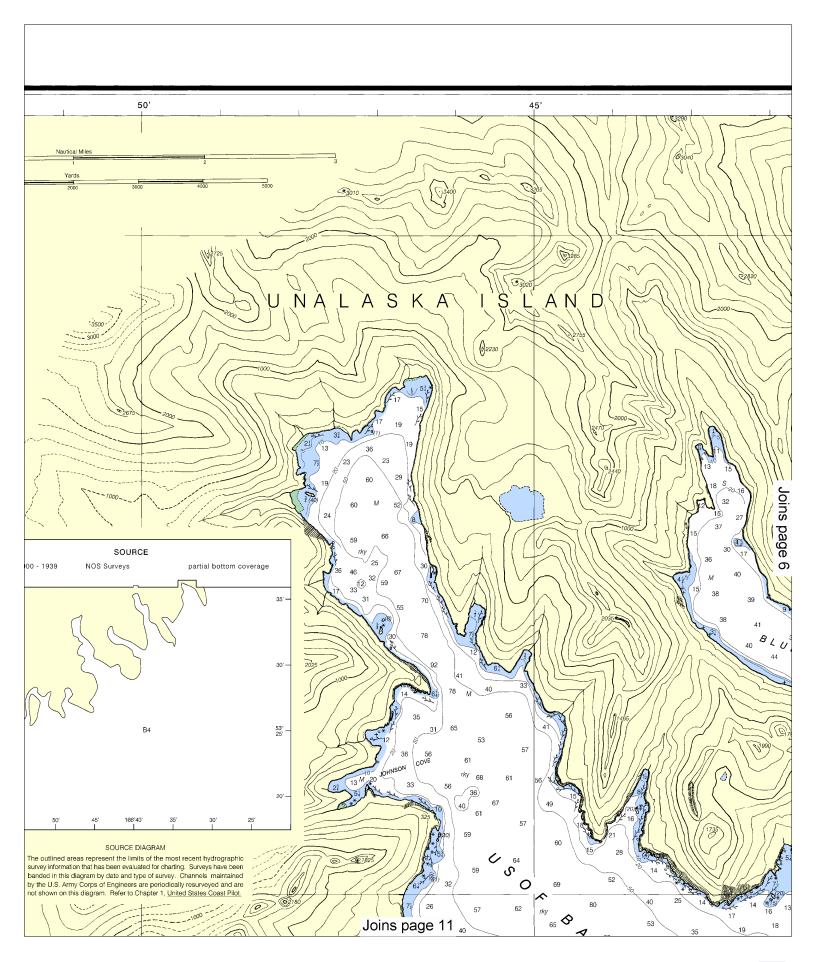


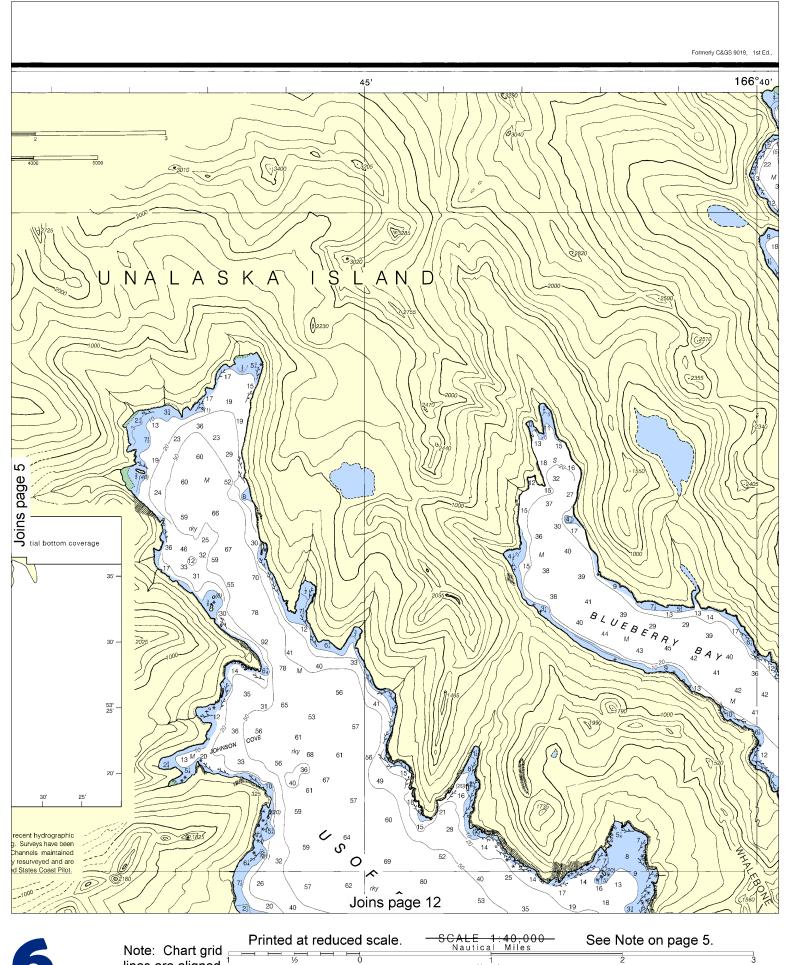
Yards

Note: Chart grid

lines are aligned

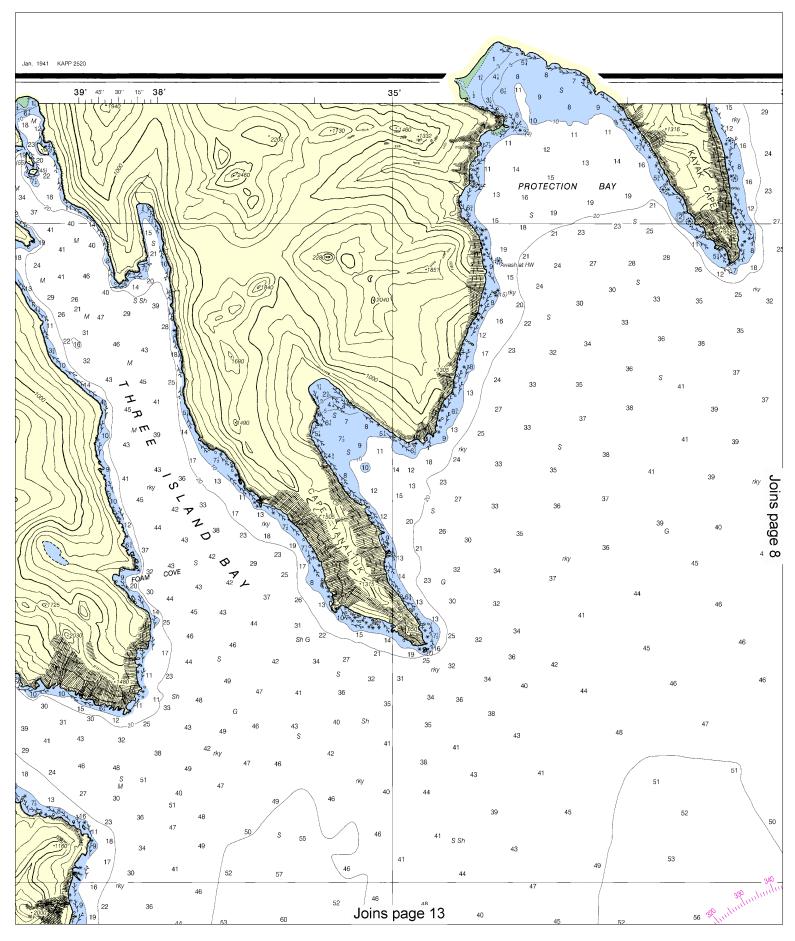
with true north.



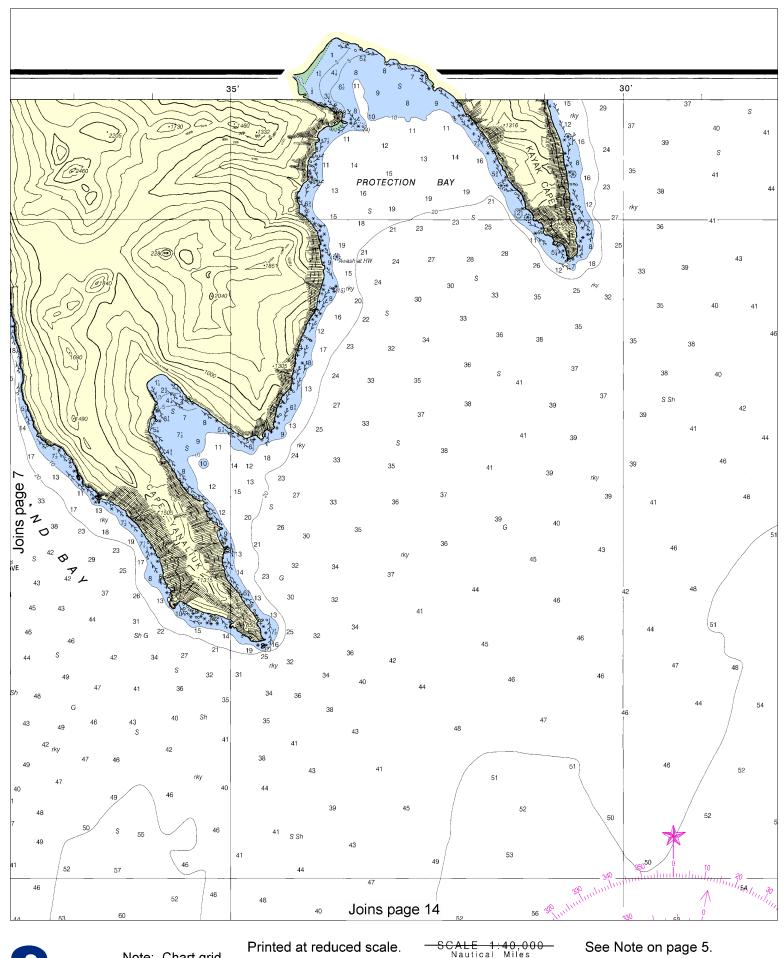




Note: Chart grid lines are aligned Yards 1000 0 1000 3000 4000 5000 with true north. 2000



This BookletChart has been updated through: Coast Guard Local Notice To Mariners: 4812 11/27/2012, NGA Weekly Notice to Mariners: 4812 12/1/2012, Canadian Coast Guard Notice to Mariners: 0912 9/28/2012.



Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

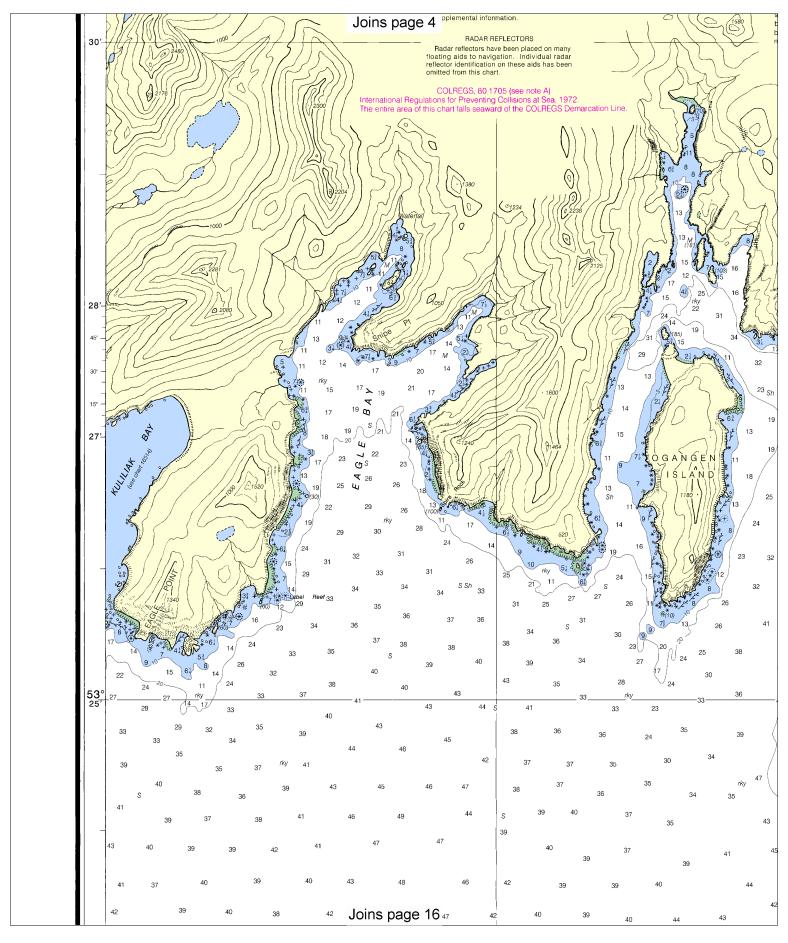
SCALE 1:40,000
Nautical Miles

See Note on page 5.

Yards

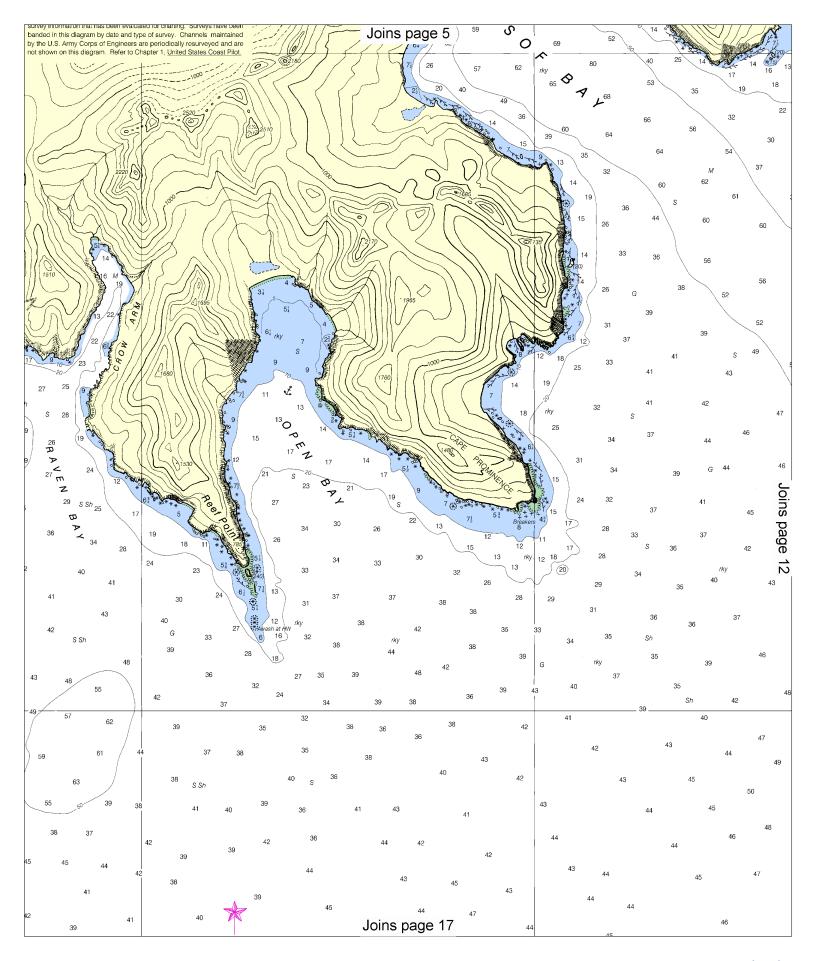
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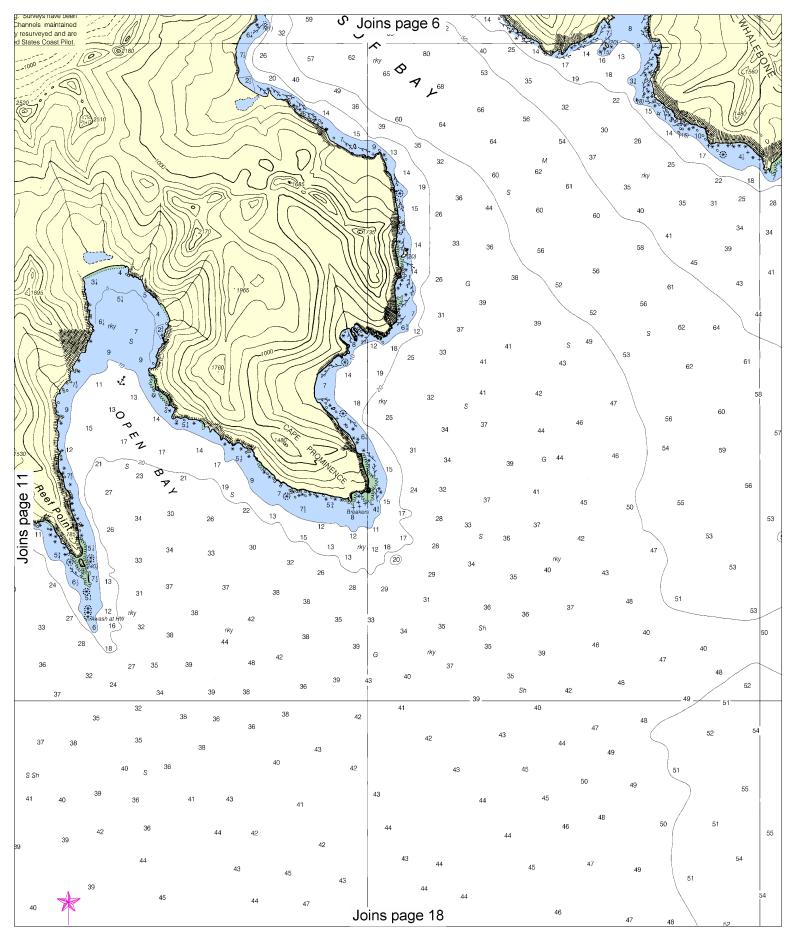
# **SOUNDINGS IN FATHOMS** 166°20' JOINS CHART 16522 -35' 30' Joins page 15

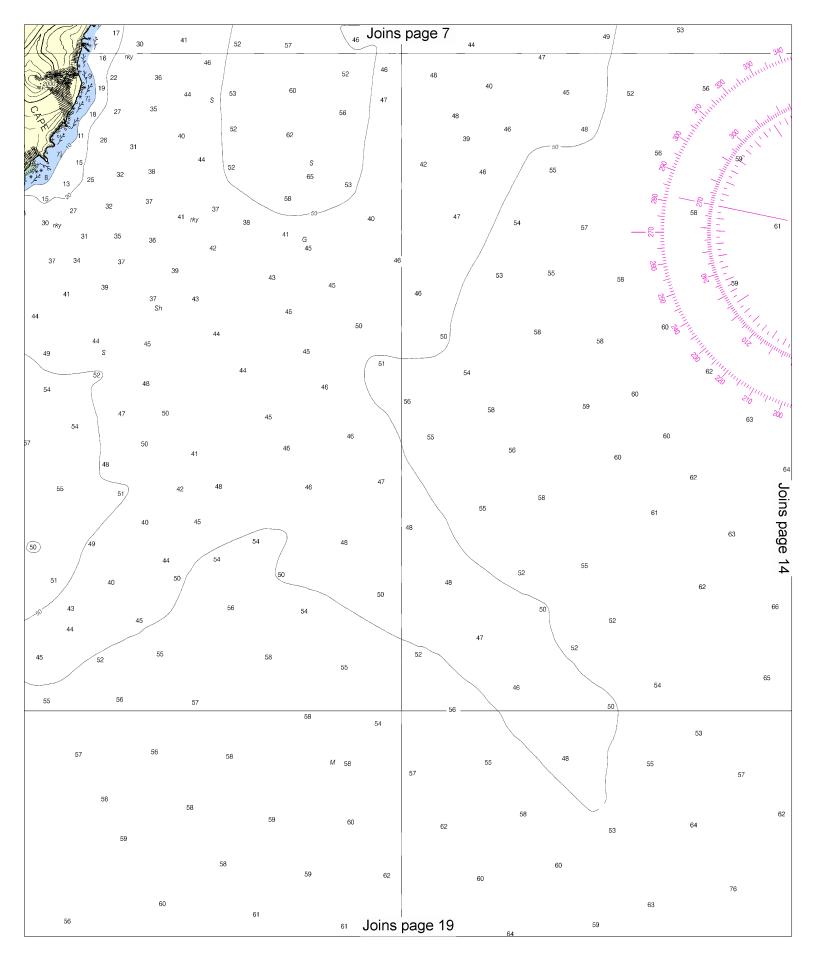


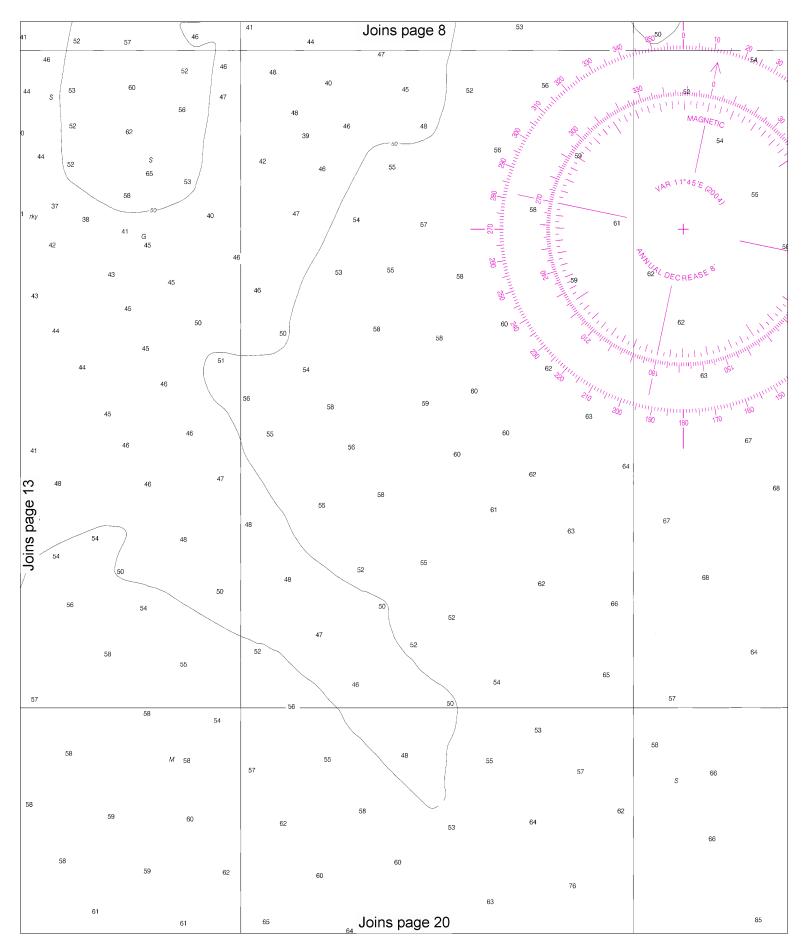
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Note: Chart grid lines are aligned with true north.









Note: Chart grid lines are aligned with true north.

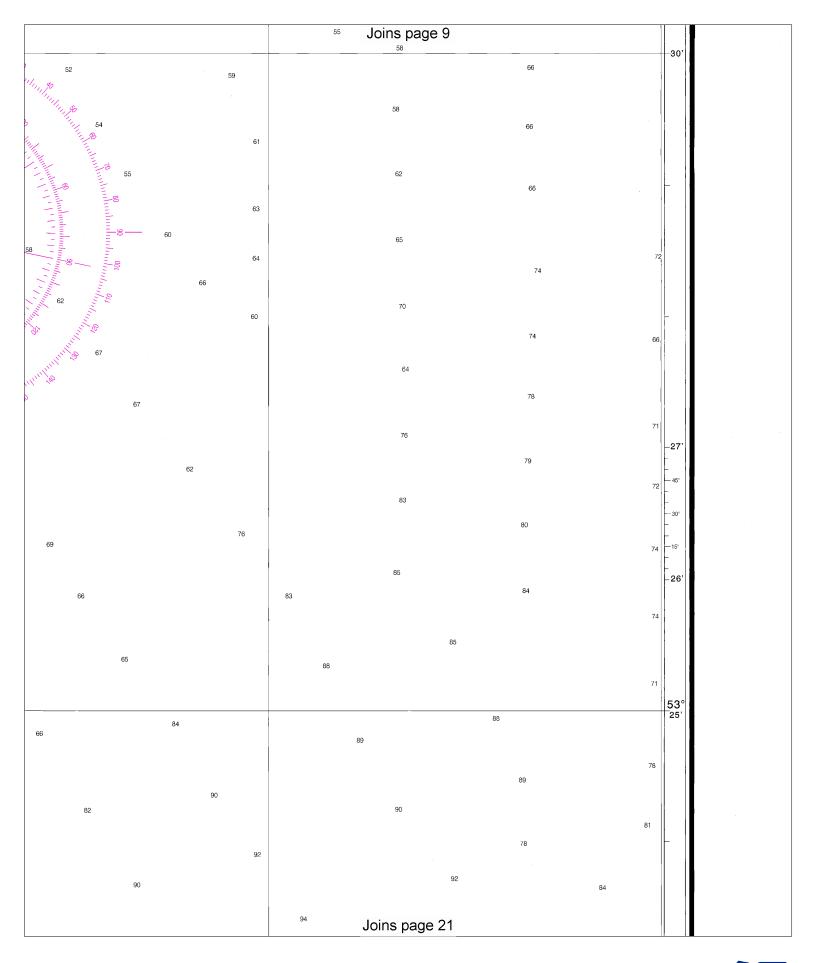
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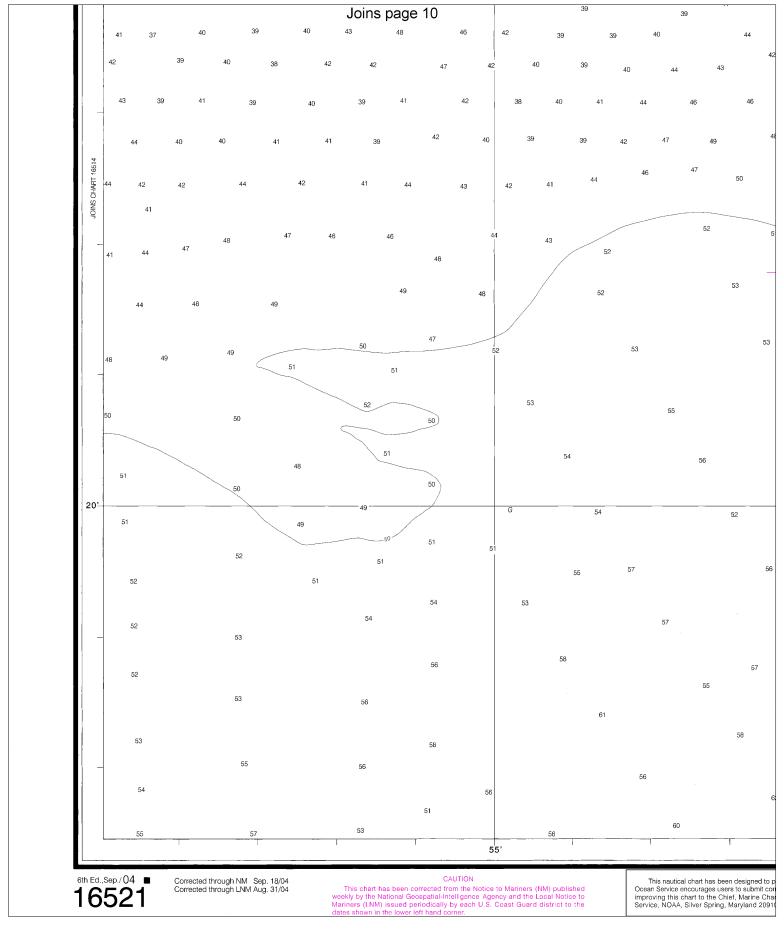
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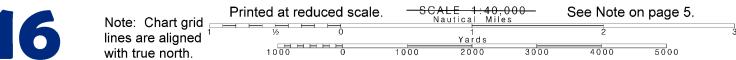
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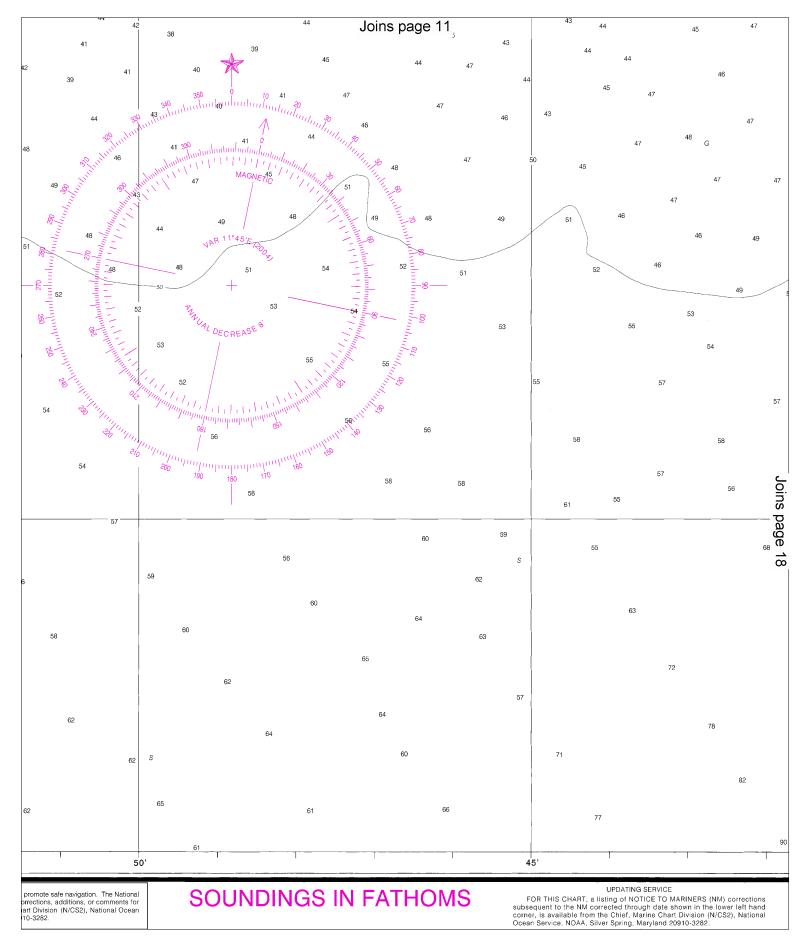
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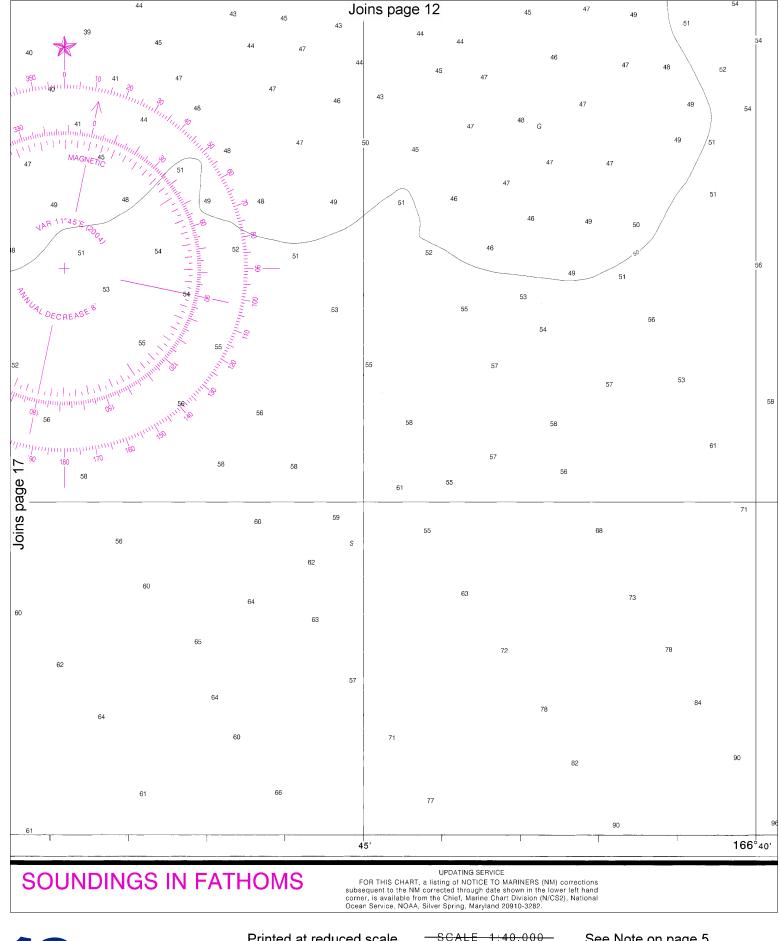
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Note: Chart grid lines are aligned with true north.

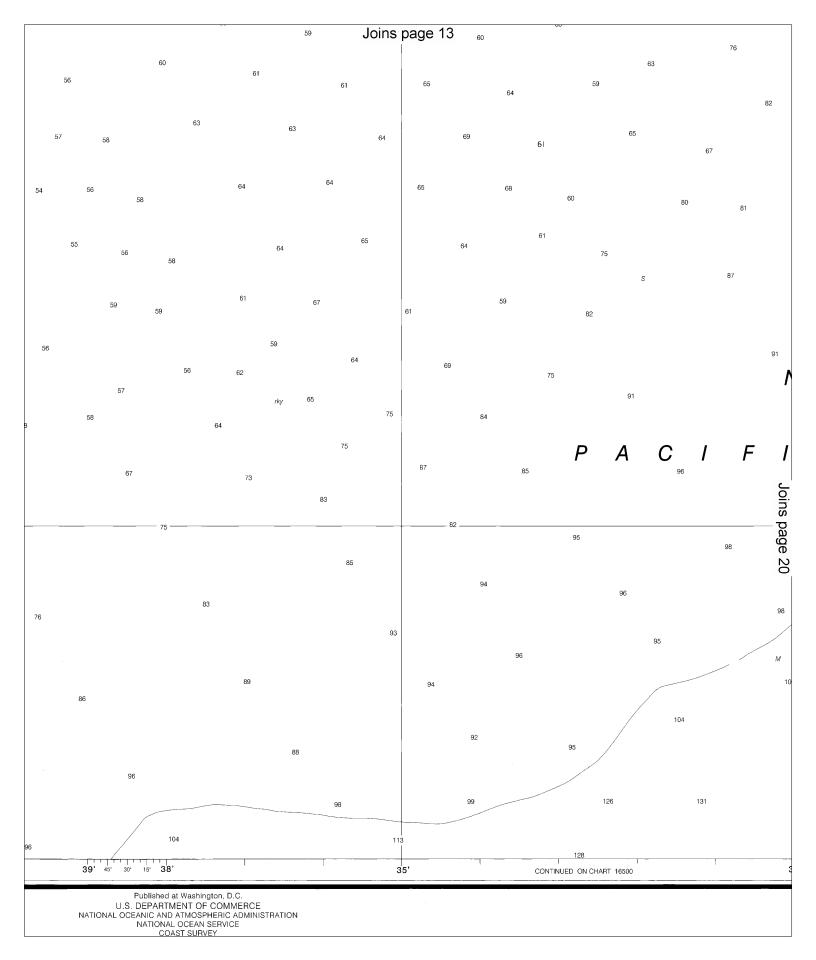
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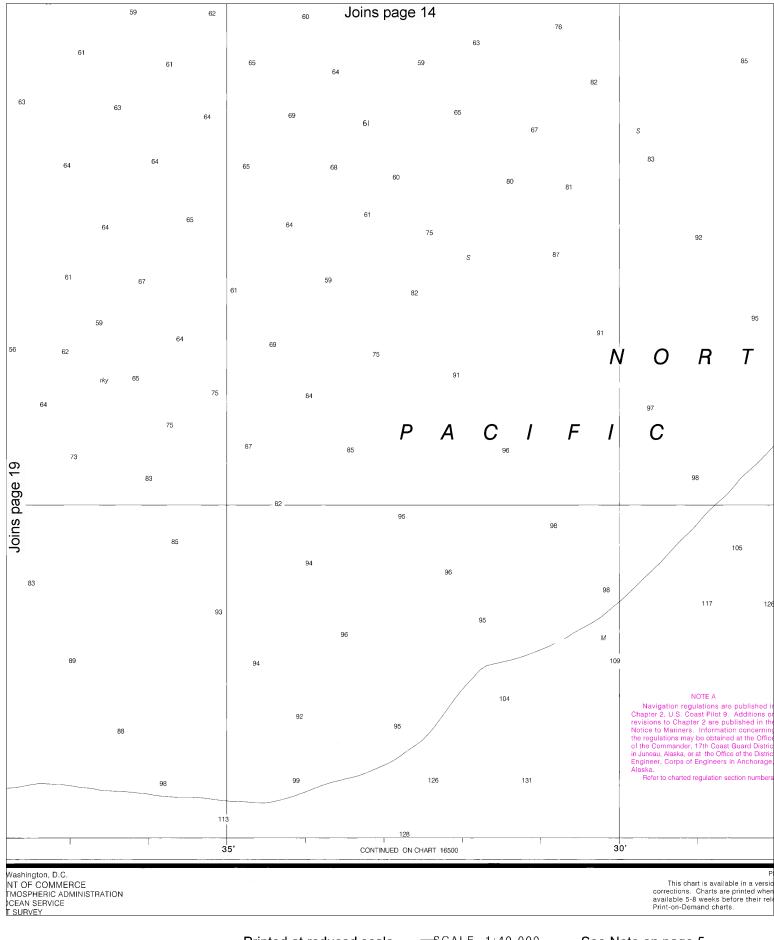
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Nautical Miles

See Note on page 5.

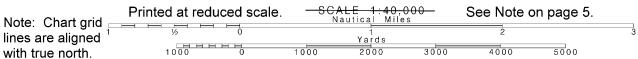
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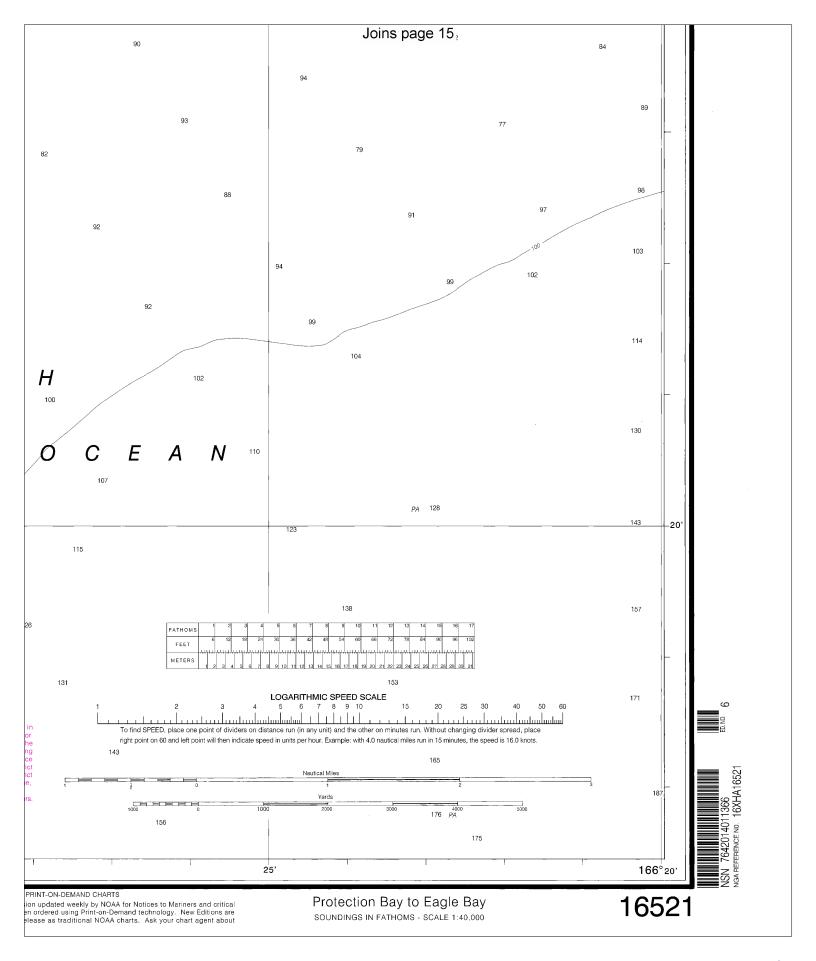
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with true north.







# VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

**Getting and Giving Help** — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

# **Distress Call Procedures**

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

# **Quick References**

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Online chart viewer — <a href="http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html">http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html</a>

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

Chart updates (LNM and NM corrections) — http://www.nauticalcharts.noaa.gov/mcd/updates/LNM\_NM.html

Coast Pilot online — http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm

Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

National Weather Service — http://www.weather.gov/

National Hurrican Center — http://www.nhc.noaa.gov/

Pacific Tsunami Warning Center — http://ptwc.weather.gov/

Contact Us — http://www.nauticalcharts.noaa.gov/staff/contact.htm



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This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

